

Name \_\_\_\_\_

### Calculating Volume and Density

A. Calculate the volume of blocks with the following dimensions:

#		Length (cm)	Width (cm)	Height (cm)	Show Work Here	Volume (cm <sup>3</sup> )
1		2	3	4		
2		1	5	7		
3		6	1	8		
4		5	2	9		
5		11	3	2		

B. Calculate the density of the following objects using the mass and volume given.

#		Mass (g)	Volume (cm <sup>3</sup> )	Show Work Here	Density (g/ cm <sup>3</sup> )
6		10	5		
7		56	4		
8		27	9		
9		48	2		
10		75	3		

C. Calculate the missing variable (mass, volume, density) using the following equations:

$$D = M / V$$

$$M = V \times D$$

$$V = M / D$$

#		Mass (g)	Volume (cm <sup>3</sup> )	Density (g/ cm <sup>3</sup> )	Show Work Here
11		32	8		
12		10		2	
13			4	6	
14		72		8	
15			11	3	
16		65		5	
17		12	4		
18			6	7	
19		26	13		
20			15	4	